

TEST REPORT

FCC ID: 2BEQO-T91**Product: Smart Watch****Model No.: T91****Trade Mark: NA****Report No.: WSCT-ANAB-R&E250600041A-BT****Issued Date: 04 July 2025****Issued for:****SHENZHEN HAOCHENG TECHNOLOGY CO.,LTD****501, Main Building, Qiaocheng No.1 Plaza, No.2 shenyun Road, Gaofa
Community, Shahe Street, Nanshan District, Shenzhen city****Issued By:****World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd.
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1. Test Certification

Product: Smart Watch
Model No.: T91
Trade Mark: NA
Applicant: SHENZHEN HAOCHENG TECHNOLOGY CO.,LTD
501, Main Building, Qiaocheng No.1 Plaza, No.2 shenyun Road,
Gaofa Community, Shahe Street, Nanshan District, Shenzhen city
Manufacturer: SHENZHEN HAOCHENG TECHNOLOGY CO.,LTD
501, Main Building, Qiaocheng No.1 Plaza, No.2 shenyun Road,
Gaofa Community, Shahe Street, Nanshan District, Shenzhen city
Date of Test: 13 May 2025 to 20 June 2025
Applicable Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

The above equipment has been tested by World Standardization Certification & Testing Group(Shenzhen)Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: _____

Wang Xiang

(Wang Xiang)

Checked By: _____

Lin Shuiquan

(Qin Shuiquan)

Approved By: _____

Li Huaibi

(Li Huaibi)

Date: _____

04 July 2025



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(1) §2.1046	PASS
20dB Occupied Bandwidth	§15.247 (a)(1) §2.1049	PASS
Carrier Frequencies Separation	§15.247 (a)(1)	PASS
Hopping Channel Number	§15.247 (a)(1)	PASS
Dwell Time	§15.247 (a)(1)	PASS
Radiated Emission	§15.205/§15.209 §2.1053, §2.1057	PASS
Band Edge	§15.247(d) §2.1051, §2.1057	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

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3. EUT Description

Product Name:	Smart Watch
Model :	T91
Trade Mark:	NA
Software Version	V1.03
Hardware Version	K1670 V1.0
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	1MHz
Number of Channel:	79
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Modulation Technology:	FHSS
Antenna Type:	Wire Antenna
Antenna Gain:	-16.41dBi
Operating Voltage	Li-ion Battery: LD 442222 3.8V 220mAh 0.836Wh
Remark:	N/A.

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Operation Frequency each of channel for GFSK, $\pi/4$ -DQPSK, 8DPSK

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
...	...	...	...	...	...	...	...
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
...	...	...	...	...	...	...	...
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz	-	-

Remark: Channel 0, 39 & 78 have been tested for GFSK, $\pi/4$ -DQPSK, 8DPSK modulation mode.

4. General Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery
The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	XCU32	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

5. Facilities and Accreditations

5.1. Facilities

All measurement facilities used to collect the measurement data are located at **World Standardization Certification & Testing Group (Shenzhen) Co., Ltd. Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China**

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025:2017.

USA	ANAB - Certificate Number: AT-3951
China	CNAS (Registration Number: L3732)
Canada	ISED (CAB identifier: CN0178)

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.wsct-cert.com>

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission Test	$\pm 3.2\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(<1GHz)	$\pm 4.7\text{dB}$
5	All emissions, radiated(>1GHz)	$\pm 4.7\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2.0\%$

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5.4. MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.
Test software	--	EZ-EMC	CON-03A	-	-
Test software	--	MTS8310	-	-	-
EMI Test Receiver	R&S	ESCI	100005	2024-11-05	2025-11-04
LISN	AFJ	LS16	16010222119	2024-11-05	2025-11-04
LISN(EUT)	Mestec	AN3016	04/10040	2024-11-05	2025-11-04
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	2024-11-05	2025-11-04
Coaxial cable	Megalon	LMR400	N/A	2024-11-05	2025-11-04
GPIO cable	Megalon	GPIO	N/A	2024-11-05	2025-11-04
Spectrum Analyzer	R&S	FSU	100114	2024-11-05	2025-11-04
Pre Amplifier	H.P.	HP8447E	2945A02715	2024-11-05	2025-11-04
Pre-Amplifier	CDSI	PAP-1G18-38	--	2024-11-05	2025-11-04
Bi-log Antenna	SCHWARZBECK	VULB9168	01488	2024-11-05	2025-11-04
9*6*6 Anechoic	--	--	--	2024-11-05	2025-11-04
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	--	2024-11-05	2025-11-04
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	2024-11-05	2025-11-04
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	2024-11-05	2025-11-04
System-Controller	CCS	N/A	N/A	N.C.R	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R
RF cable	Murata	MXHQ87WA3000	-	2024-11-05	2025-11-04
Loop Antenna	EMCO	6502	00042960	2024-11-05	2025-11-04
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	2024-11-05	2025-11-04
Power meter	Anritsu	ML2487A	6K00003613	2024-11-05	2025-11-04
Power sensor	Anritsu	MX248XD	--	2024-11-05	2025-11-04
Spectrum Analyzer	Keysight	N9010B	MY60241089	2024-11-05	2025-11-04

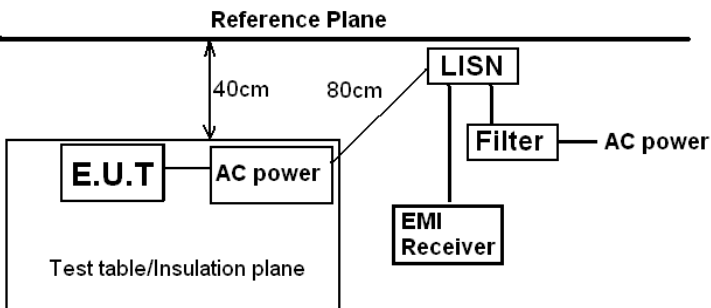
6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
E.U.T Antenna:	
The Bluetooth antenna is a Wire Antenna. it meets the standards, and the best case gain of the antenna is -16.41dBi.	
Please refer to the attachment "T91" Internal Photo" for the antenna location	

6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.10:2014		
Frequency Range:	150 kHz to 30 MHz		
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto		
Limits:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
Test Setup:	 Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test Mode:	Refer to item 4.1		
Test Procedure:	1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2014 on conducted measurement.		
Test Result:	PASS		

6.2.2. EUT OPERATING CONDITIONS

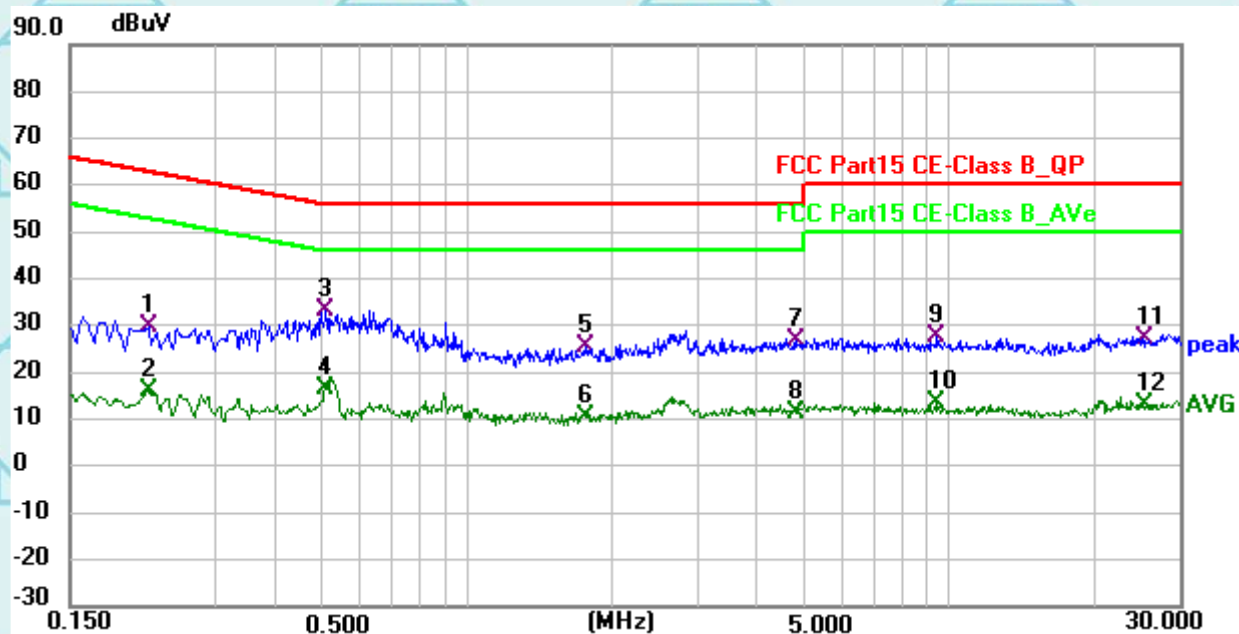
The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

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Test data:

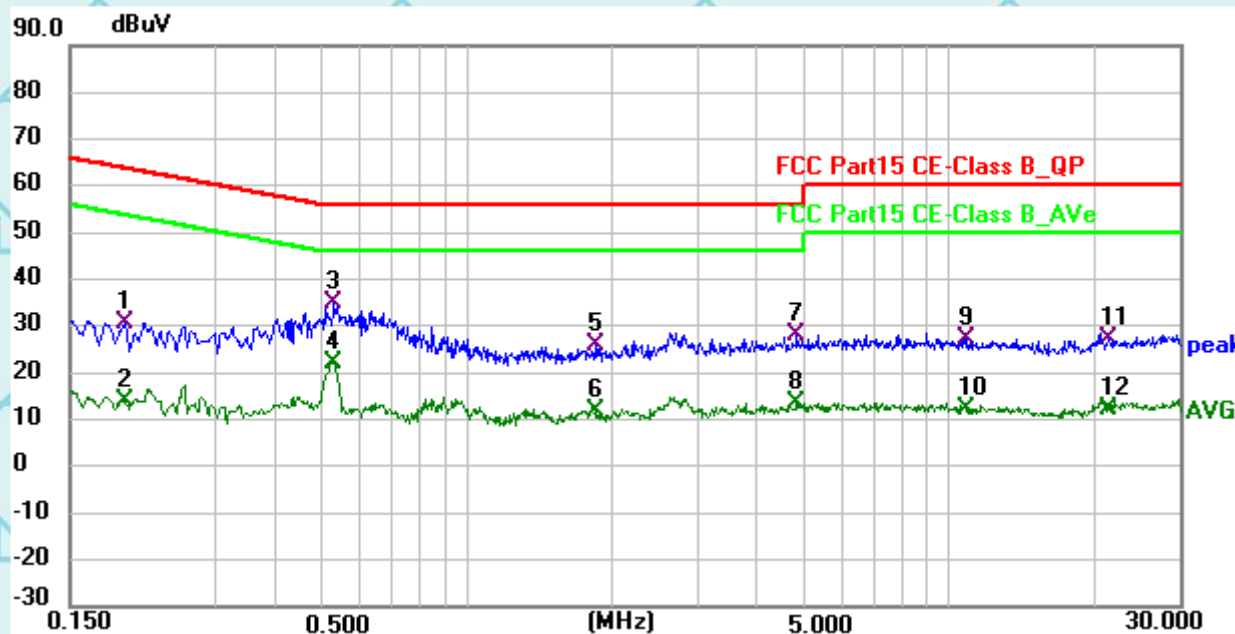
Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2175	8.90	20.68	29.58	62.91	-33.33	QP
2	0.2175	-4.61	20.68	16.07	52.91	-36.84	AVG
3 *	0.5100	12.52	20.51	33.03	56.00	-22.97	QP
4	0.5100	-4.16	20.51	16.35	46.00	-29.65	AVG
5	1.7565	4.79	20.62	25.41	56.00	-30.59	QP
6	1.7565	-10.25	20.62	10.37	46.00	-35.63	AVG
7	4.8435	6.24	20.57	26.81	56.00	-29.19	QP
8	4.8435	-9.16	20.57	11.41	46.00	-34.59	AVG
9	9.4065	7.24	20.46	27.70	60.00	-32.30	QP
10	9.4065	-7.07	20.46	13.39	50.00	-36.61	AVG
11	25.2509	6.75	20.63	27.38	60.00	-32.62	QP
12	25.2509	-7.47	20.63	13.16	50.00	-36.84	AVG

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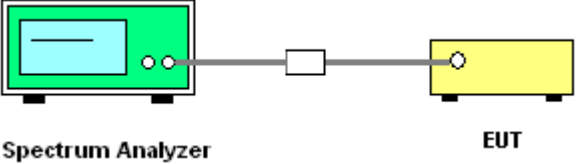
Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1949	10.08	20.69	30.77	63.83	-33.06	QP
2	0.1949	-6.96	20.69	13.73	53.83	-40.10	AVG
3 *	0.5280	14.50	20.51	35.01	56.00	-20.99	QP
4	0.5280	1.39	20.51	21.90	46.00	-24.10	AVG
5	1.8465	5.51	20.62	26.13	56.00	-29.87	QP
6	1.8465	-8.80	20.62	11.82	46.00	-34.18	AVG
7	4.8480	7.45	20.57	28.02	56.00	-27.98	QP
8	4.8480	-7.22	20.57	13.35	46.00	-32.65	AVG
9	10.8690	6.96	20.40	27.36	60.00	-32.64	QP
10	10.8690	-7.98	20.40	12.42	50.00	-37.58	AVG
11	21.3945	7.00	20.35	27.35	60.00	-32.65	QP
12	21.3945	-8.28	20.35	12.07	50.00	-37.93	AVG

6.3. Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2014
Limit:	Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
Test Result:	PASS

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6.3.2. Test Data

GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	5.98	20.97	PASS
Middle	6.29	20.97	PASS
Highest	5.86	20.97	PASS

Pi/4DQPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	7.65	20.97	PASS
Middle	8.06	20.97	PASS
Highest	7.54	20.97	PASS

8DPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	8.19	20.97	PASS
Middle	8.52	20.97	PASS
Highest	8.07	20.97	PASS

Test plots as follows:

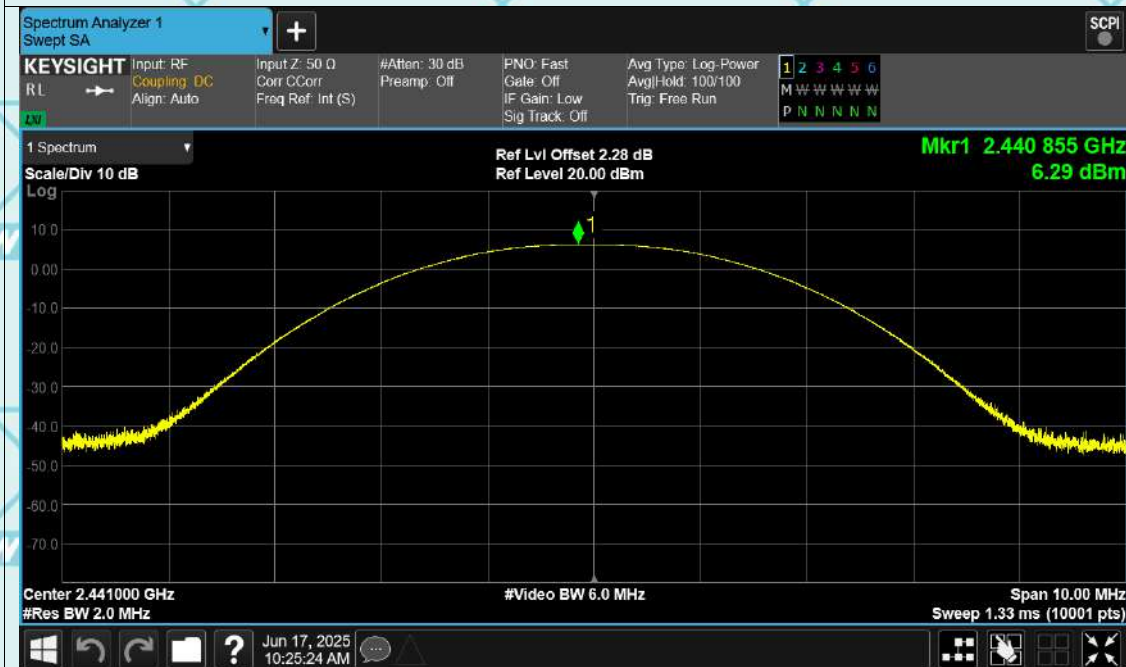
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Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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Power NVNT 1-DH5 2480MHz Ant1

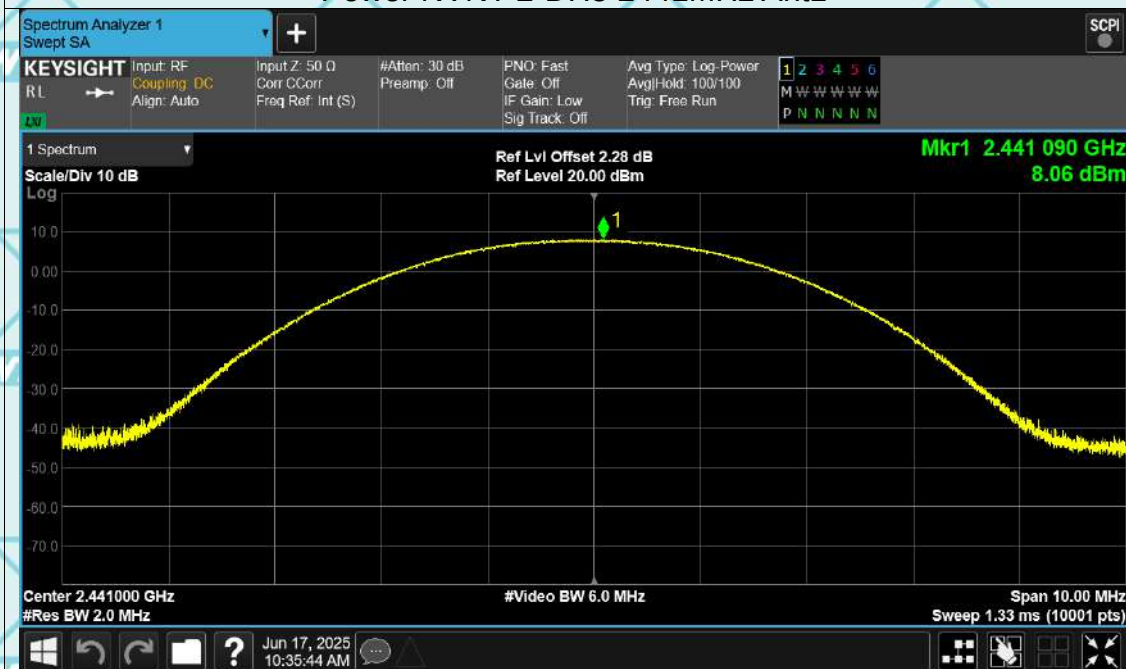


Power NVNT 2-DH5 2402MHz Ant1



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Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



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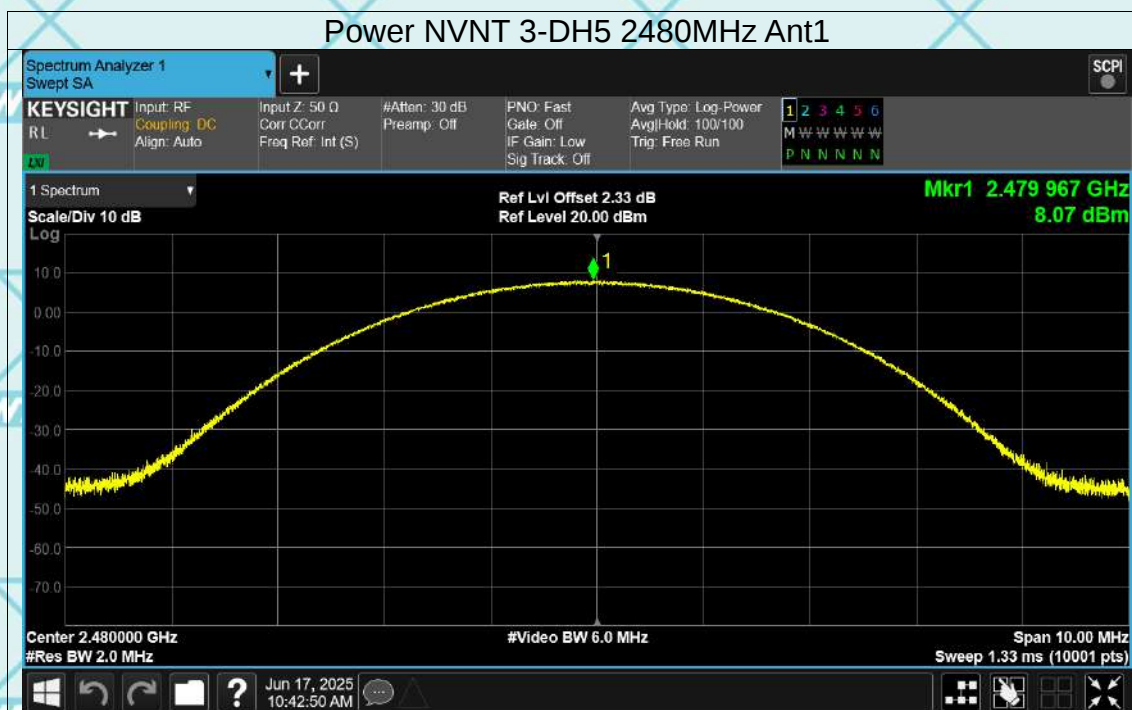
Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

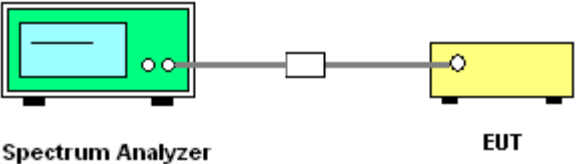


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6.4. 20dB Occupy Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2014
Limit:	N/A
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows ANSI C63.10:2014 Measurement Guidelines. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; $1\% \leq RBW \leq 5\%$ of the 20 dB bandwidth; $VBW \geq 3RBW$; Sweep = auto; Detector function = peak; Trace = max hold. 5. Measure and record the results in the test report.
Test Result:	PASS

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6.4.2. Test data

Test channel	-20dB Occupy Bandwidth (MHz)			
	GFSK	$\pi/4$ -DQPSK	8DPSK	Conclusion
Lowest	0.9539	1.364	1.345	PASS
Middle	0.9589	1.364	1.346	PASS
Highest	0.9515	1.367	1.348	PASS

Test plots as follows:

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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



Report No.: WSCT-ANAB-R&E250600041A -BT

-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



Report No.: WSCT-ANAB-R&E250600041A -BT

-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

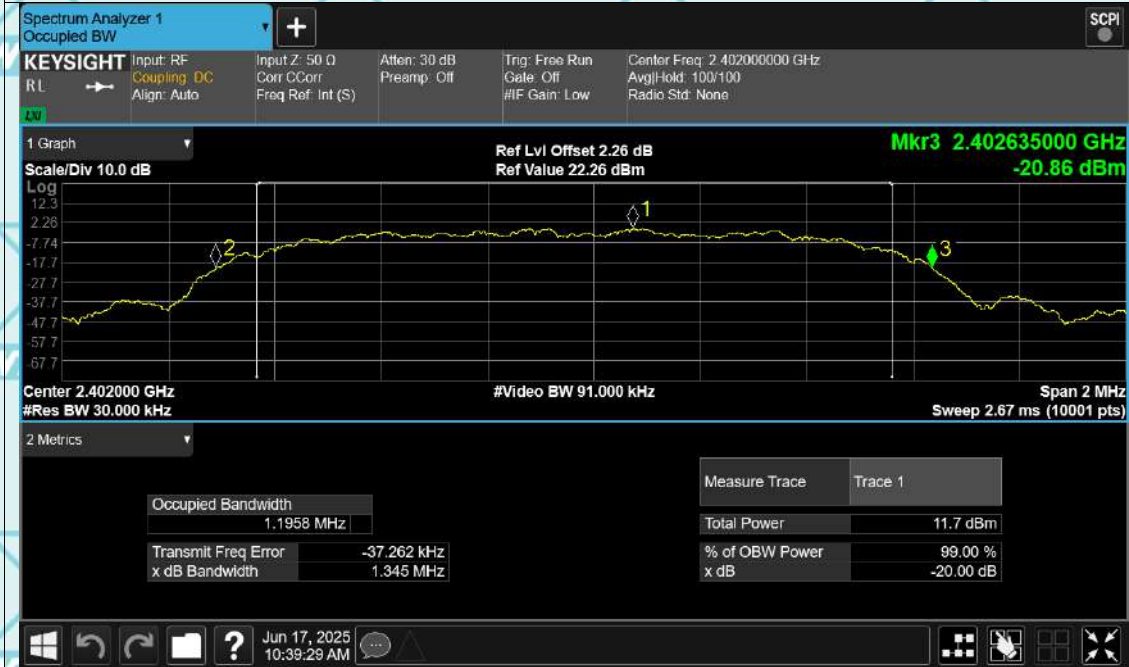


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



Report No.: WSCT-ANAB-R&E250600041A -BT

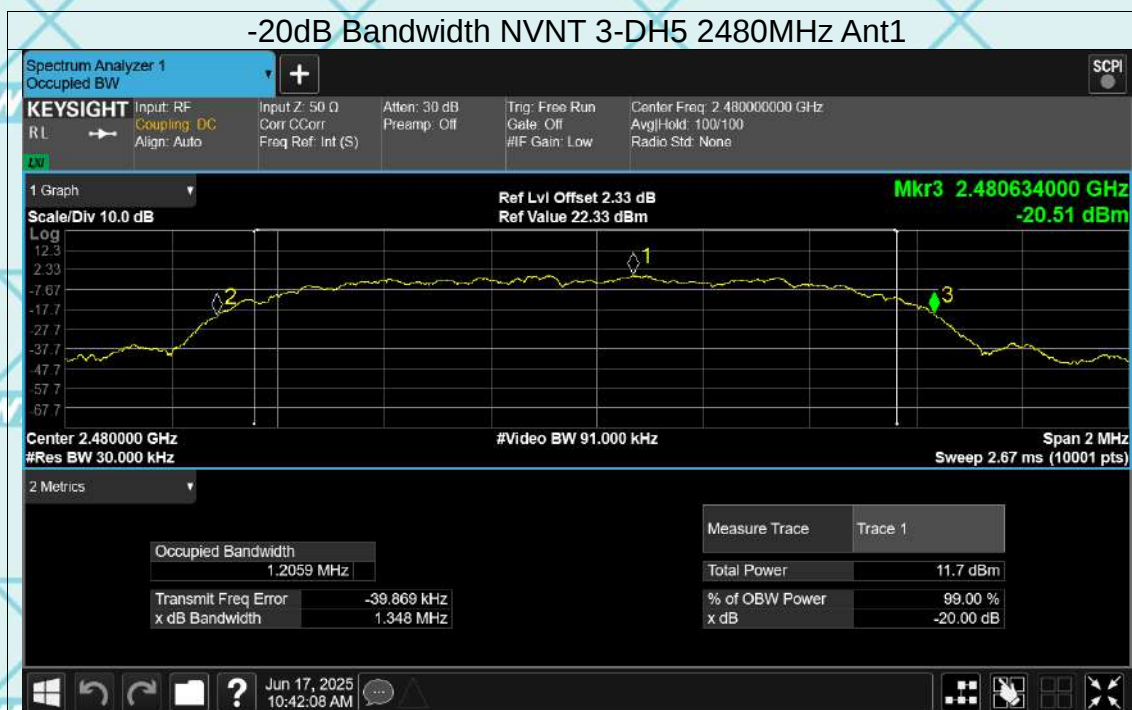
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

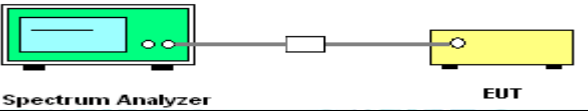


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6.5. Carrier Frequencies Separation

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2014
Limit:	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Hopping mode
Test Procedure:	1. The testing follows ANSI C63.10:2014 Measurement Guidelines. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Enable the EUT hopping function. 5. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold. 6. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.
Test Result:	PASS

6.5.2. Test data

GFSK mode			
Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
Lowest	1.016	0.636	PASS
Middle	1.006	0.639	PASS
Highest	1.008	0.634	PASS

Pi/4 DQPSK mode			
Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
Lowest	0.994	0.909	PASS
Middle	0.988	0.909	PASS
Highest	0.99	0.911	PASS

8DPSK mode			
Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
Lowest	1.002	0.897	PASS
Middle	0.994	0.897	PASS
Highest	1.016	0.899	PASS

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Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 1-DH5 2441MHz Ant1



Report No.: WSCT-ANAB-R&E250600041A -BT

CFS NVNT 1-DH5 2480MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



Report No.: WSCT-ANAB-R&E250600041A -BT

CFS NVNT 2-DH5 2441MHz Ant1



CFS NVNT 2-DH5 2480MHz Ant1



Report No.: WSCT-ANAB-R&E250600041A -BT

CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1



Report No.: WSCT-ANAB-R&E250600041A -BT

CFS NVNT 3-DH5 2480MHz Ant1



6.6. Hopping Channel Number

6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2014
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Hopping mode
Test Procedure:	1. The testing follows ANSI C63.10:2014 Measurement Guidelines. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Enable the EUT hopping function. 5. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. 6. The number of hopping frequency used is defined as the number of total channel. 7. Record the measurement data in report.
Test Result:	PASS

Report No.: WSCT-ANAB-R&E250600041A -BT

6.6.2. Test data

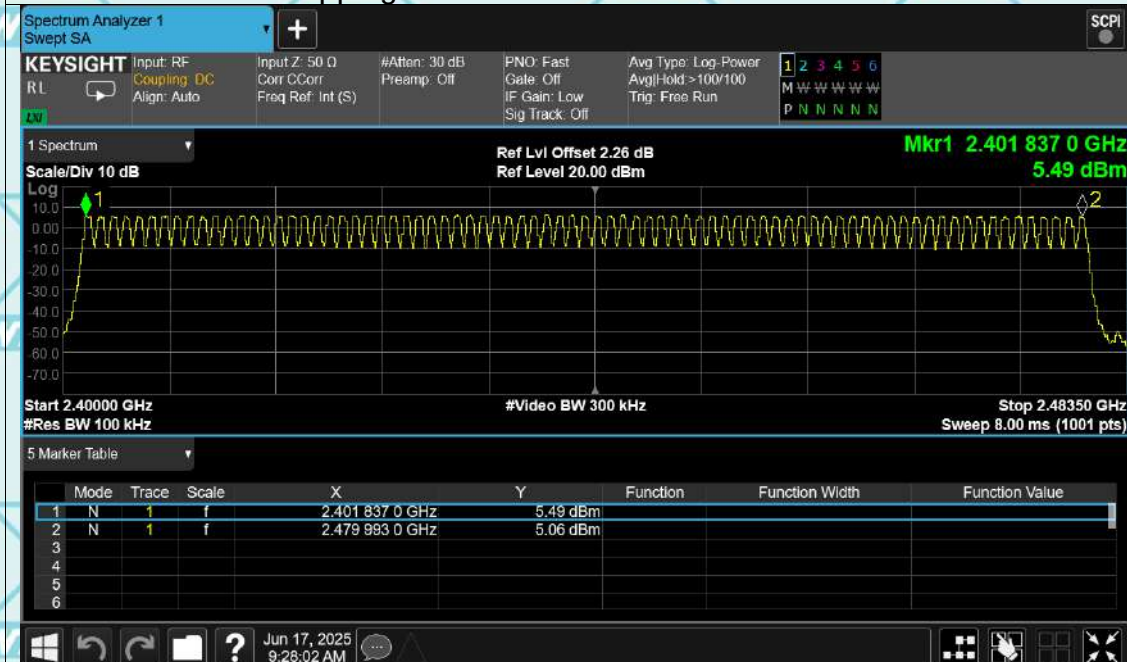
Mode	Hopping channel numbers	Limit	Result
GFSK, P/4-DQPSK, 8DPSK	79	15	PASS

Test plots as follows:

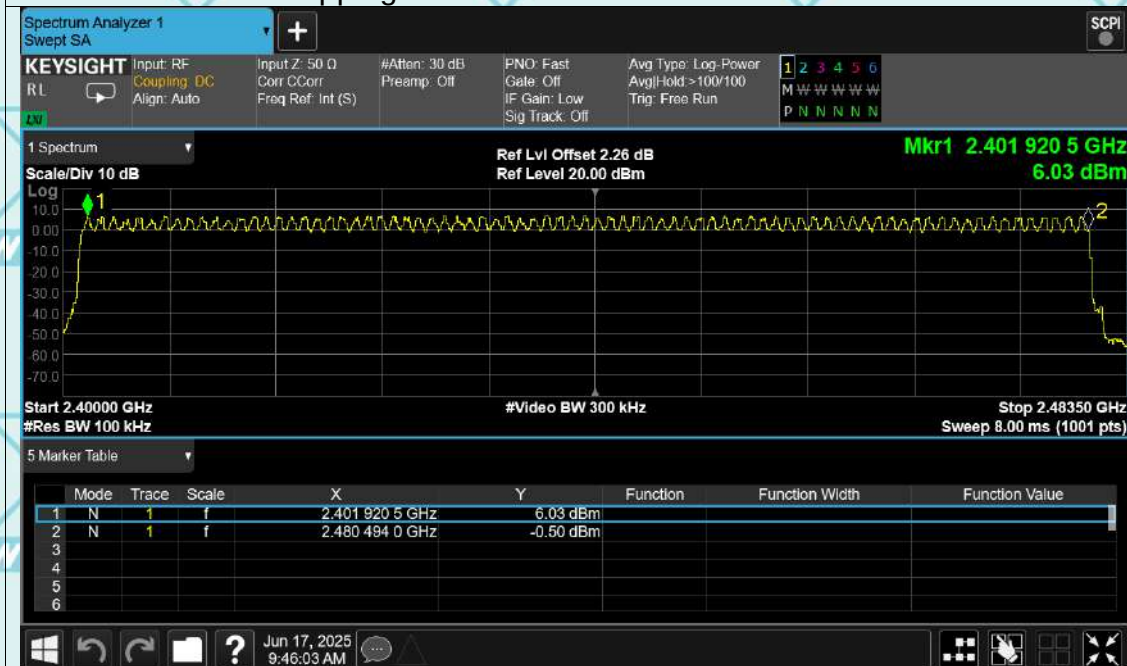
Report No.: WSCT-ANAB-R&E250600041A -BT

Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

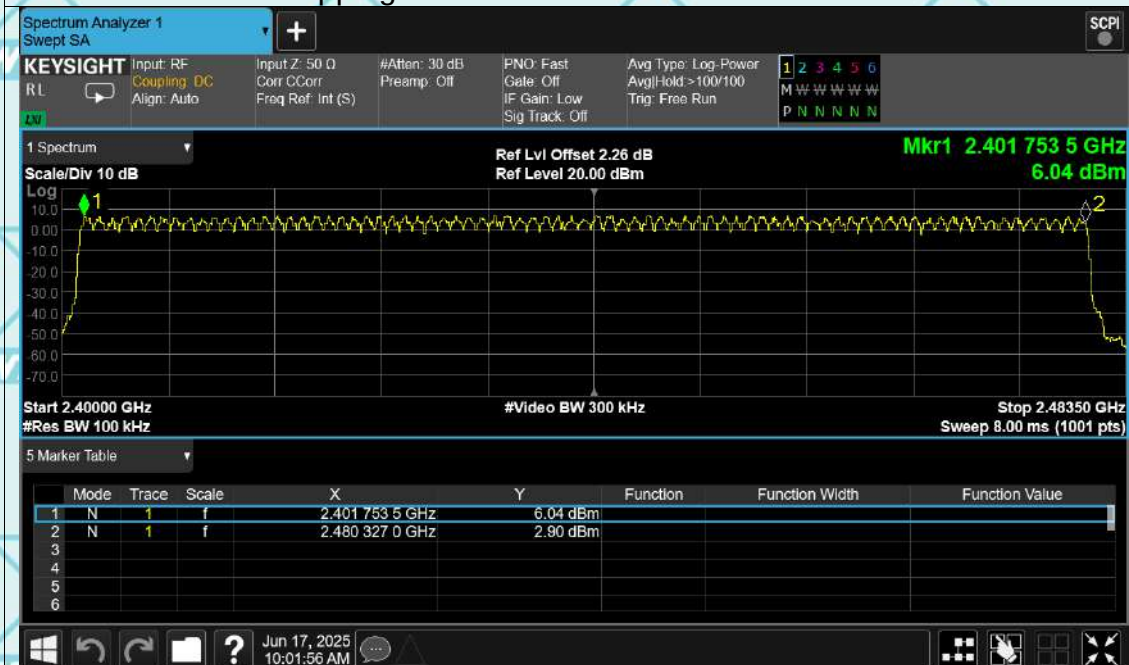


Hopping No. NVNT 2-DH5 2402MHz Ant1



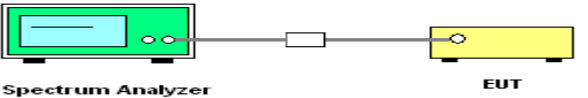
Report No.: WSCT-ANAB-R&E250600041A -BT

Hopping No. NVNT 3-DH5 2402MHz Ant1



6.7. Dwell Time

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2014
Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Hopping mode
Test Procedure:	1. The testing follows ANSI C63.10:2014 Measurement Guidelines. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Enable the EUT hopping function. 5. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1/T$, where T is the expected dwell time per channel; VBW $\geq$ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. 6. Measure and record the results in the test report.
Test Result:	PASS

6.7.2 Test Data

Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2402	0.386	122.362	317	31600	400	Pass
1-DH1	2441	0.385	122.815	319	31600	400	Pass
1-DH1	2480	0.386	121.976	316	31600	400	Pass
1-DH3	2402	1.642	259.436	158	31600	400	Pass
1-DH3	2441	1.642	256.152	156	31600	400	Pass
1-DH3	2480	1.642	254.51	155	31600	400	Pass
1-DH5	2402	2.89	343.91	119	31600	400	Pass
1-DH5	2441	2.89	294.78	102	31600	400	Pass
1-DH5	2480	2.89	355.47	123	31600	400	Pass

Note: 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels.

For DH1, With channel hopping rate $(1600 / 2 / 79)$ in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 2 / 79) \times (0.4 \times 79) = 320$ hops

For DH3, With channel hopping rate $(1600 / 4 / 79)$ in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 4 / 79) \times (0.4 \times 79) = 160$ hops

For DH5, With channel hopping rate $(1600 / 6 / 79)$ in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops

2. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

Test plots as follows:

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Test Graphs

Dwell NVNT 1-DH1 2402MHz Ant1 One Burst



Dwell NVNT 1-DH1 2402MHz Ant1 Accumulated



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Dwell NVNT 1-DH1 2441MHz Ant1 One Burst



Dwell NVNT 1-DH1 2441MHz Ant1 Accumulated



Report No.: WSCT-ANAB-R&E250600041A -BT

Dwell NVNT 1-DH1 2480MHz Ant1 One Burst



Dwell NVNT 1-DH1 2480MHz Ant1 Accumulated

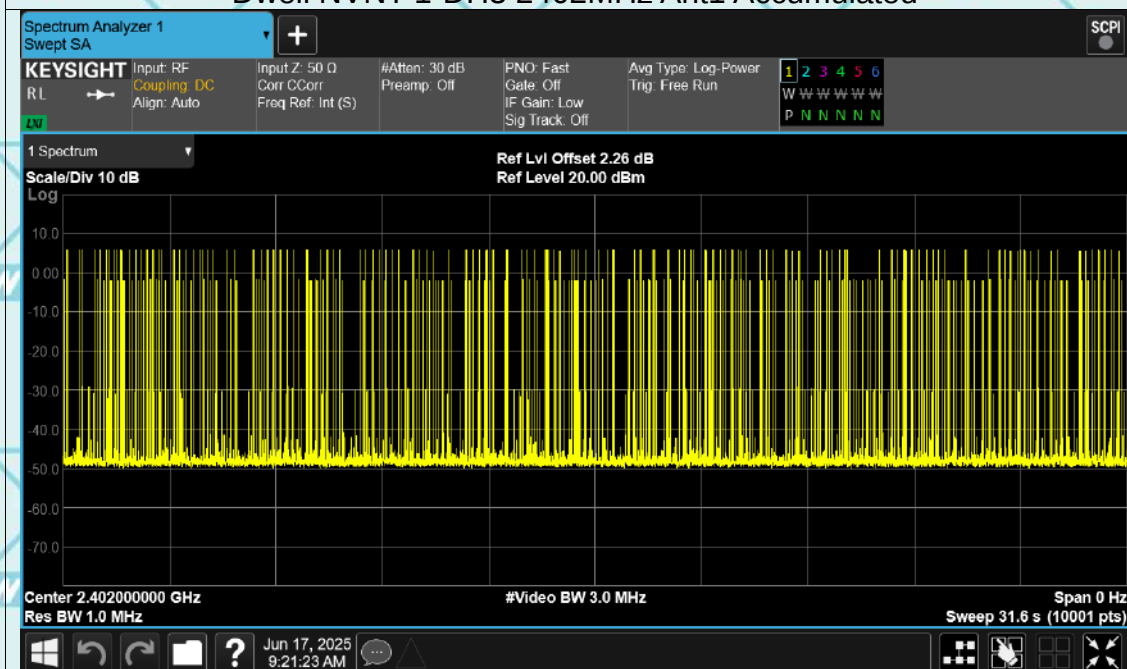


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Dwell NVNT 1-DH3 2402MHz Ant1 One Burst



Dwell NVNT 1-DH3 2402MHz Ant1 Accumulated



Report No.: WSCT-ANAB-R&E250600041A -BT

Dwell NVNT 1-DH3 2441MHz Ant1 One Burst



Dwell NVNT 1-DH3 2441MHz Ant1 Accumulated

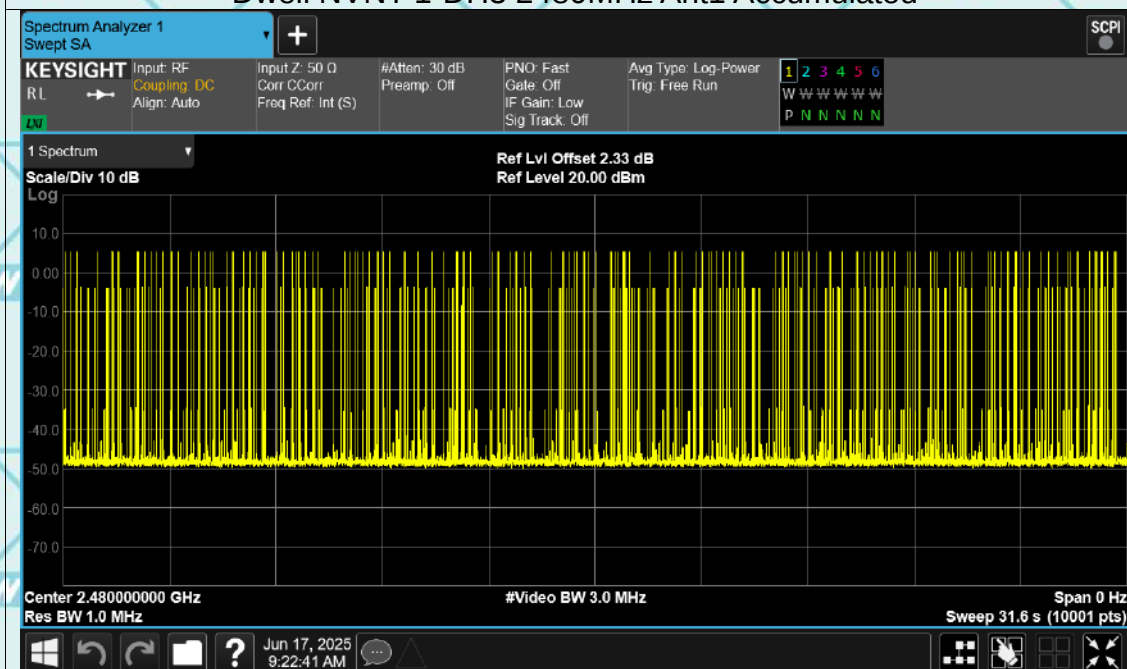


Report No.: WSCT-ANAB-R&E250600041A -BT

Dwell NVNT 1-DH3 2480MHz Ant1 One Burst



Dwell NVNT 1-DH3 2480MHz Ant1 Accumulated

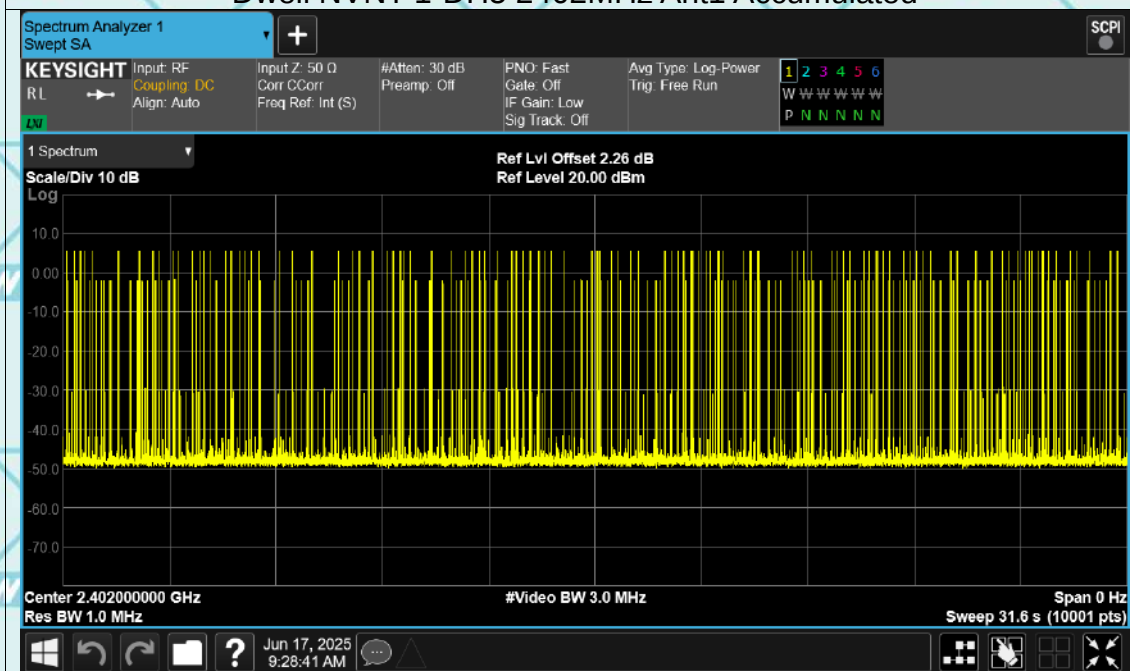


Report No.: WSCT-ANAB-R&E250600041A -BT

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

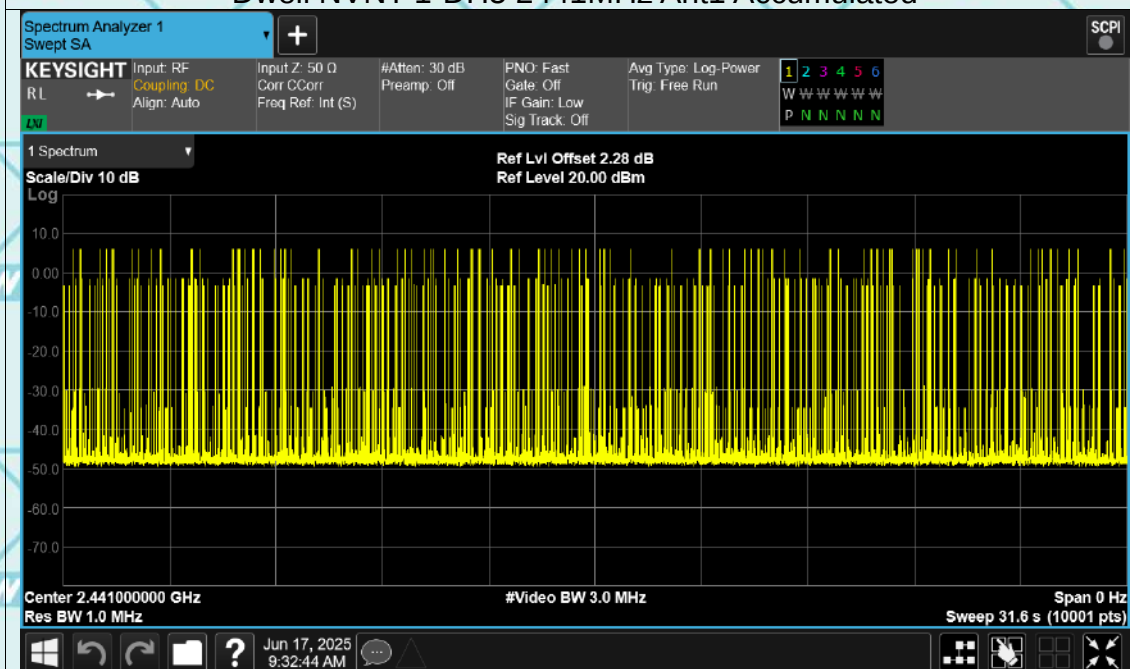


Report No.: WSCT-ANAB-R&E250600041A -BT

Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated

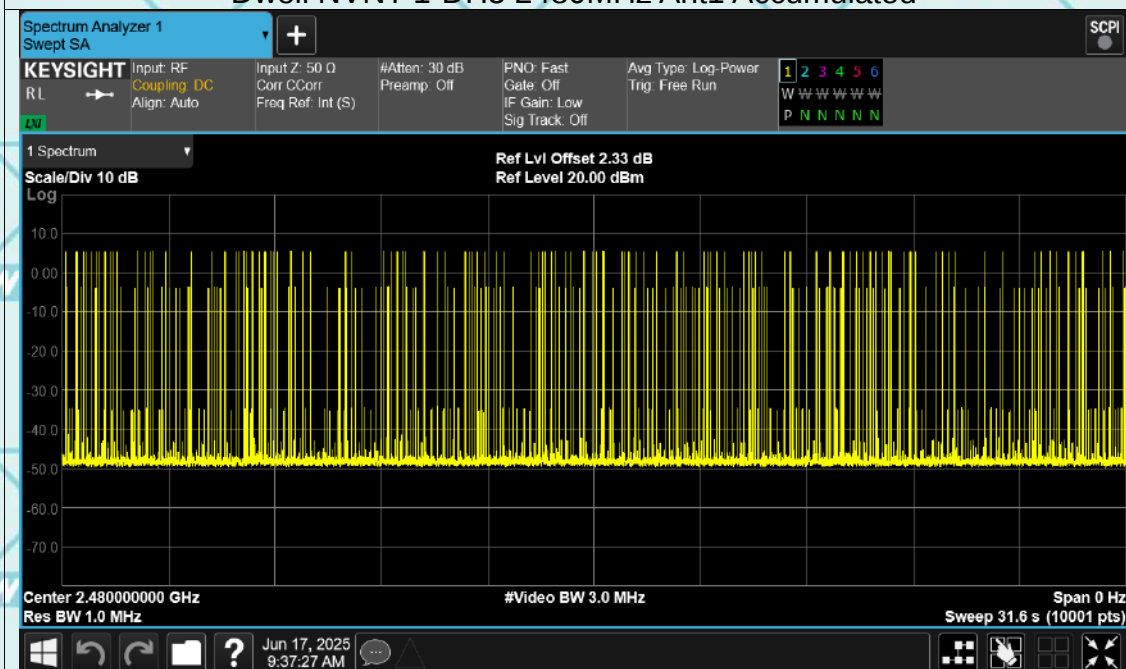


Report No.: WSCT-ANAB-R&E250600041A -BT

Dwell NVNT 1-DH5 2480MHz Ant1 One Burst



Dwell NVNT 1-DH5 2480MHz Ant1 Accumulated



6.8. Pseudorandom Frequency Hopping Sequence

Test Requirement: FCC Part15 C Section 15.247 (a)(1) requirement:

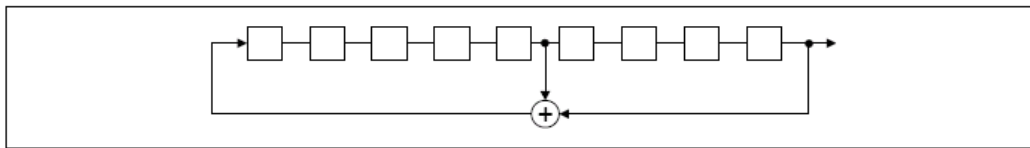
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively, Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

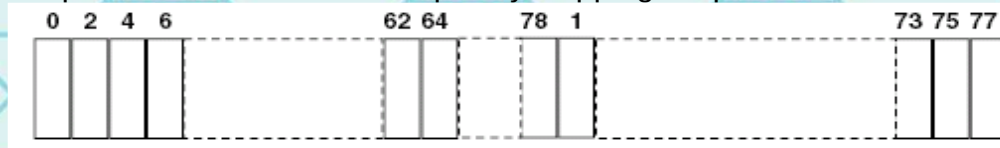
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

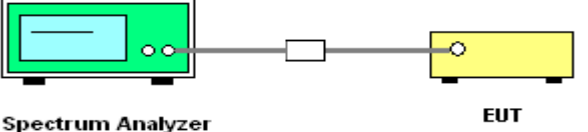
An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

6.9. Conducted Band Edge Measurement

6.9.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2014
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	 The diagram shows a Spectrum Analyzer (represented by a green box with a screen) connected via a cable to an EUT (represented by a yellow box). The Spectrum Analyzer is labeled 'Spectrum Analyzer' and the EUT is labeled 'EUT'.
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of ANSI C63.10:2014 Measurement Guidelines. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Set RBW = 100 kHz ($\geq 1\%$ span=10MHz), VBW = 300 kHz ($\geq$RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. 4. Enable hopping function of the EUT and then repeat step 2 and 3. 5. Measure and record the results in the test report.
Test Result:	PASS

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6.9.2. Test Data

GFSK Modulation (the worst case)

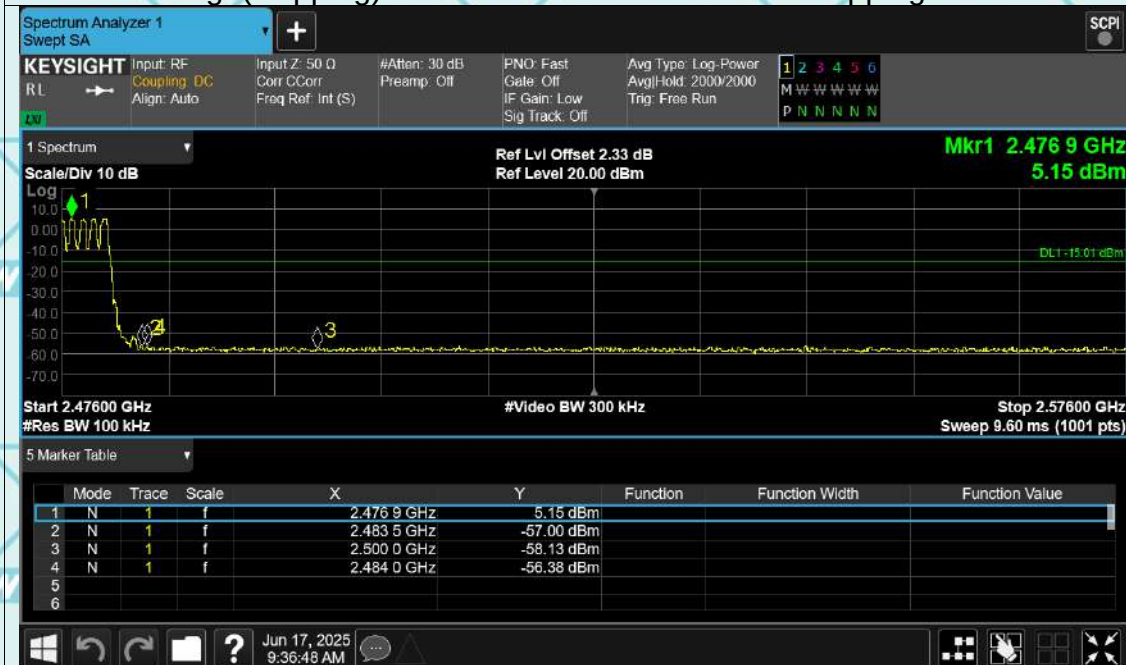


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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



6.10. Conducted Spurious Emission Measurement

6.10.1. Test Specification

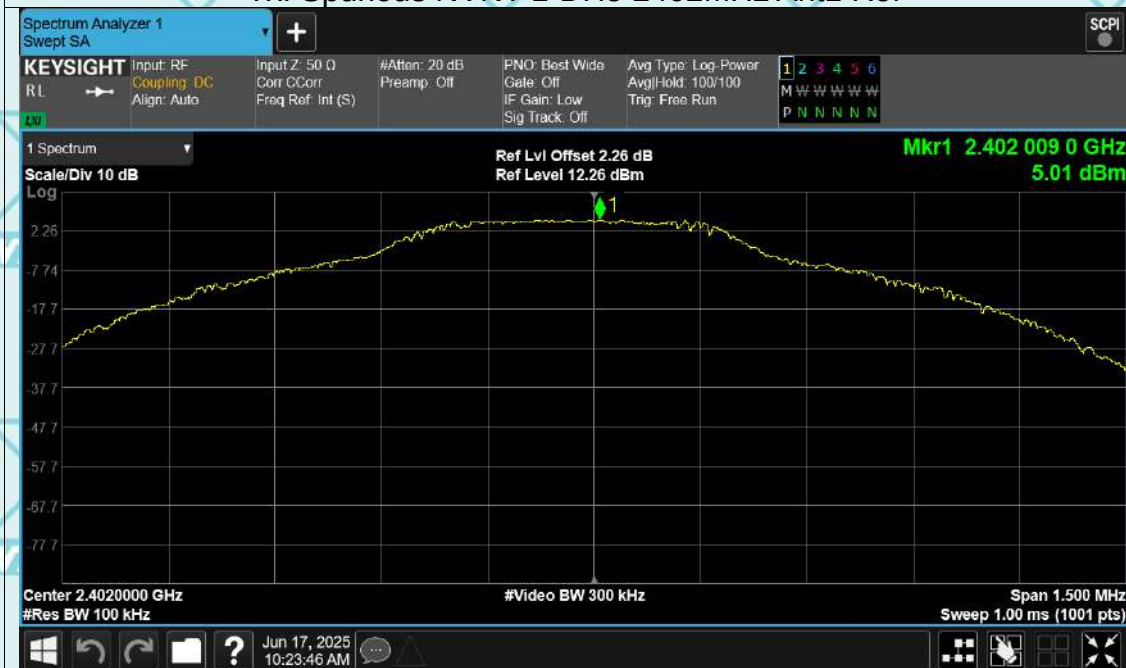
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2014
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the guidelines in Spurious RF Conducted Emissions of ANSI C63.10:2014 Measurement Guidelines 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

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Test Data

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

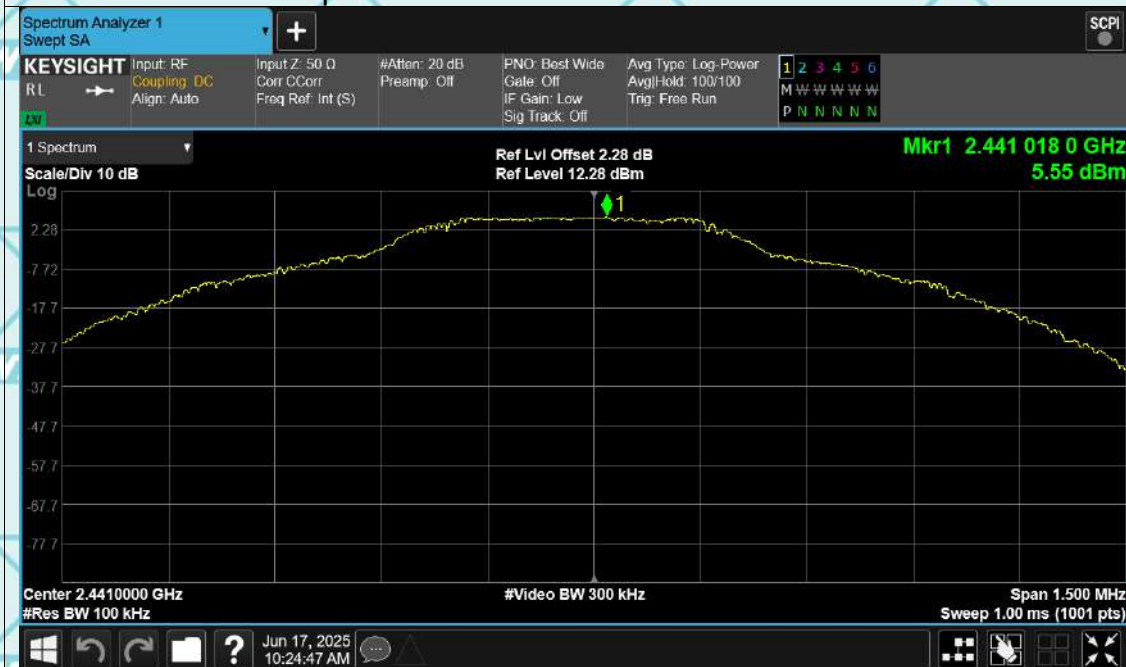


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Report No.: WSCT-ANAB-R&E250600041A -BT

Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

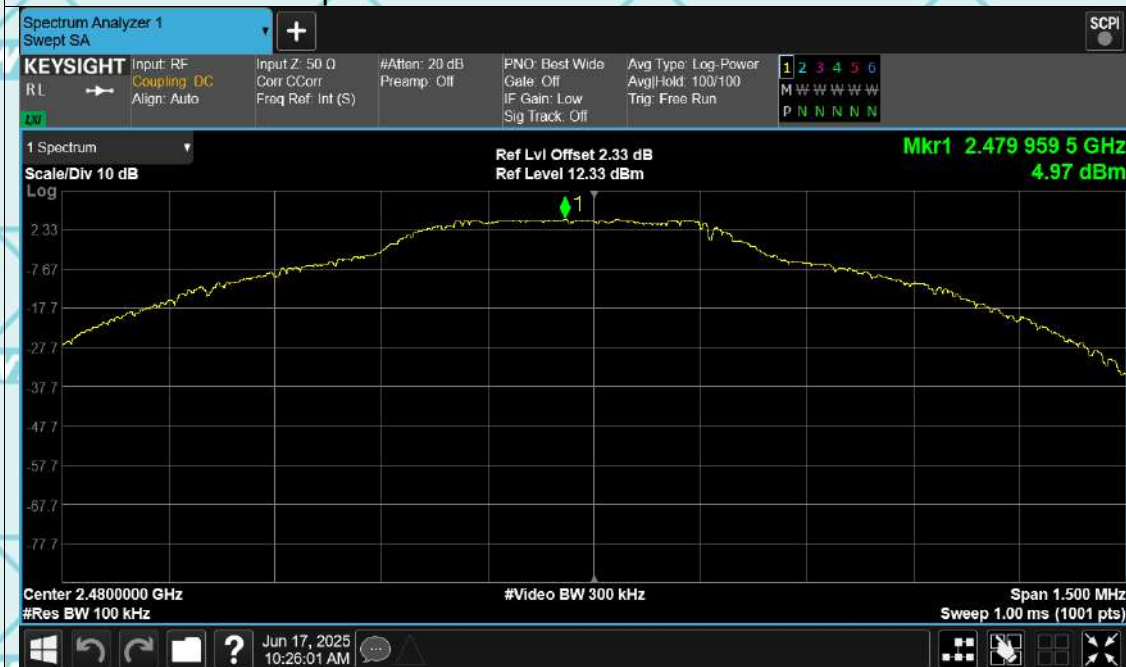


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

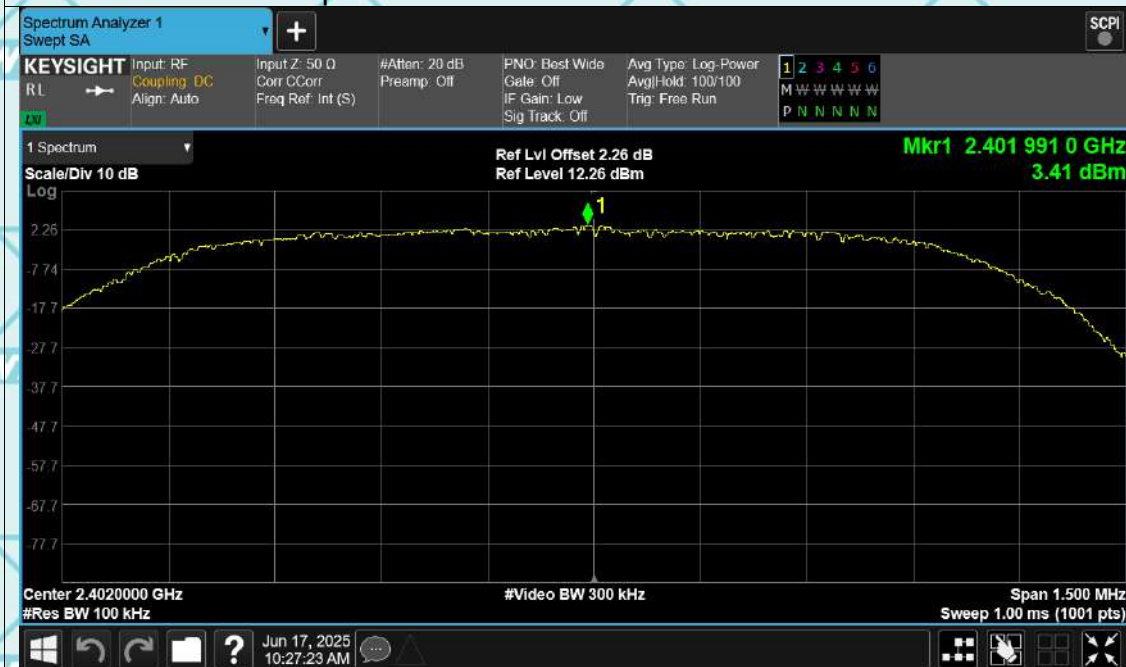


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Report No.: WSCT-ANAB-R&E250600041A -BT

Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

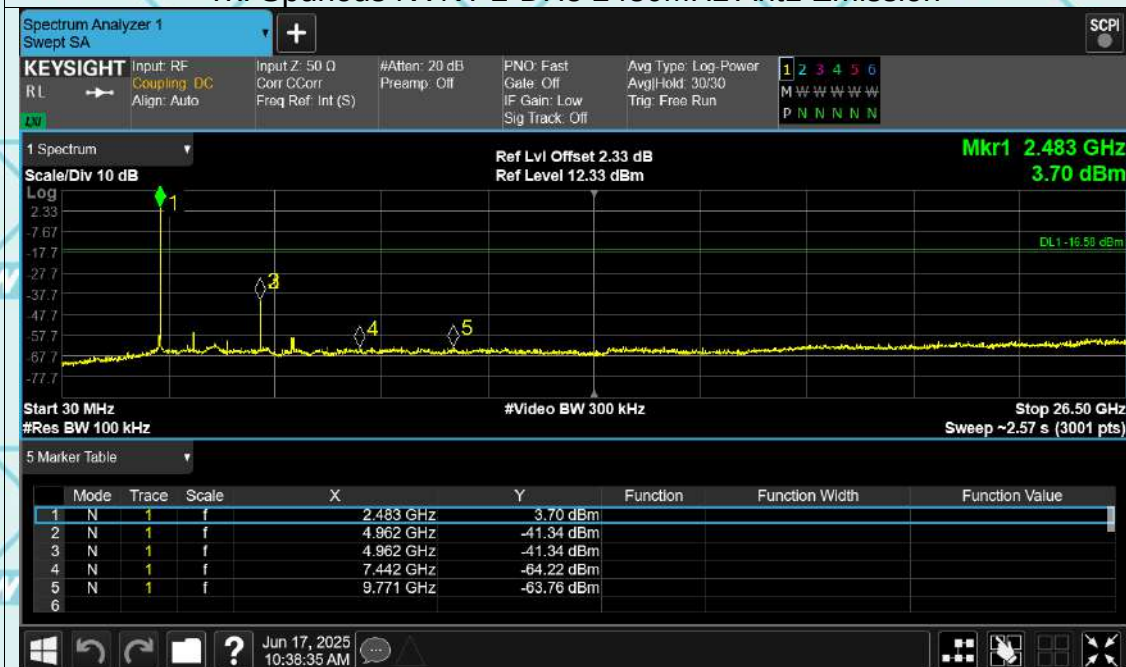


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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

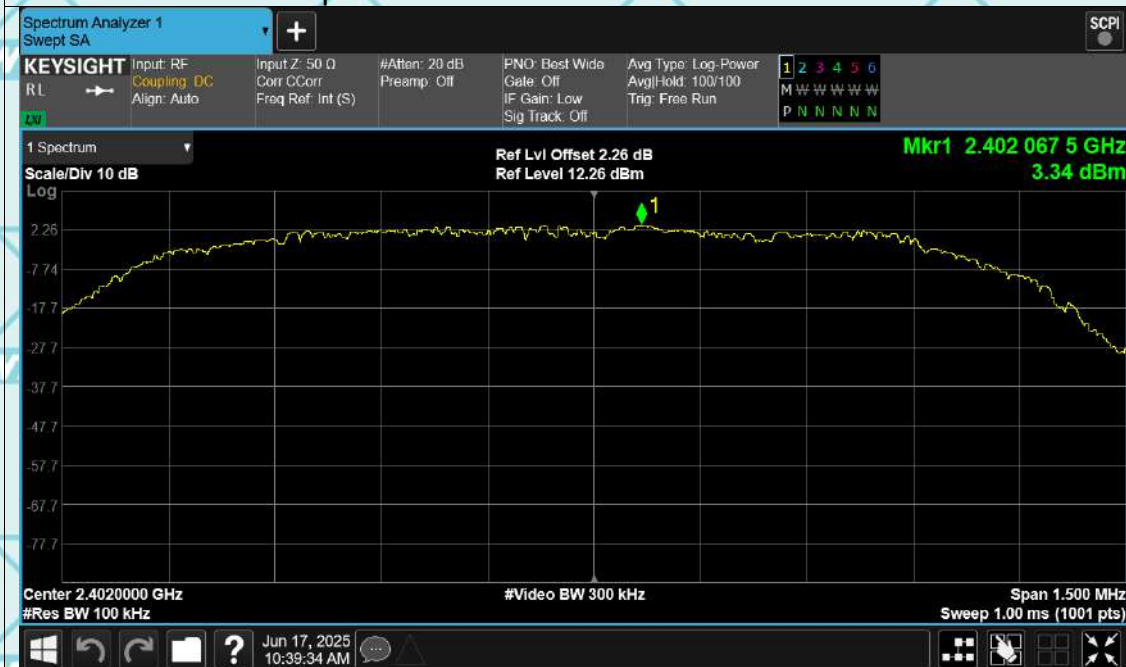


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Report No.: WSCT-ANAB-R&E250600041A -BT

Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

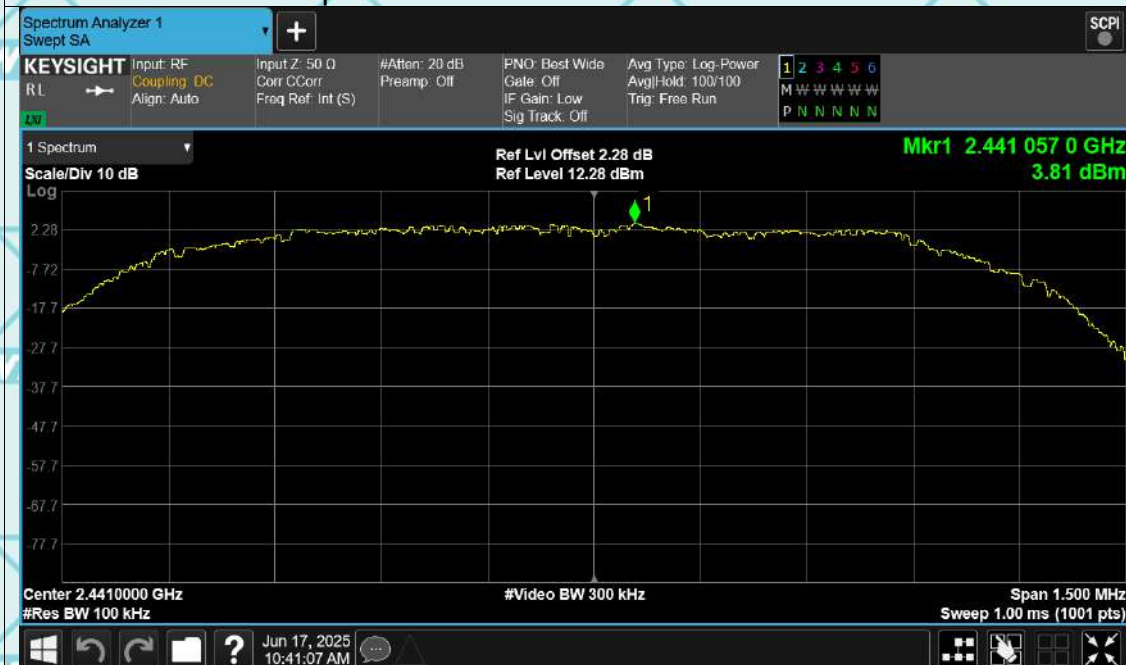


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Report No.: WSCT-ANAB-R&E250600041A -BT

Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

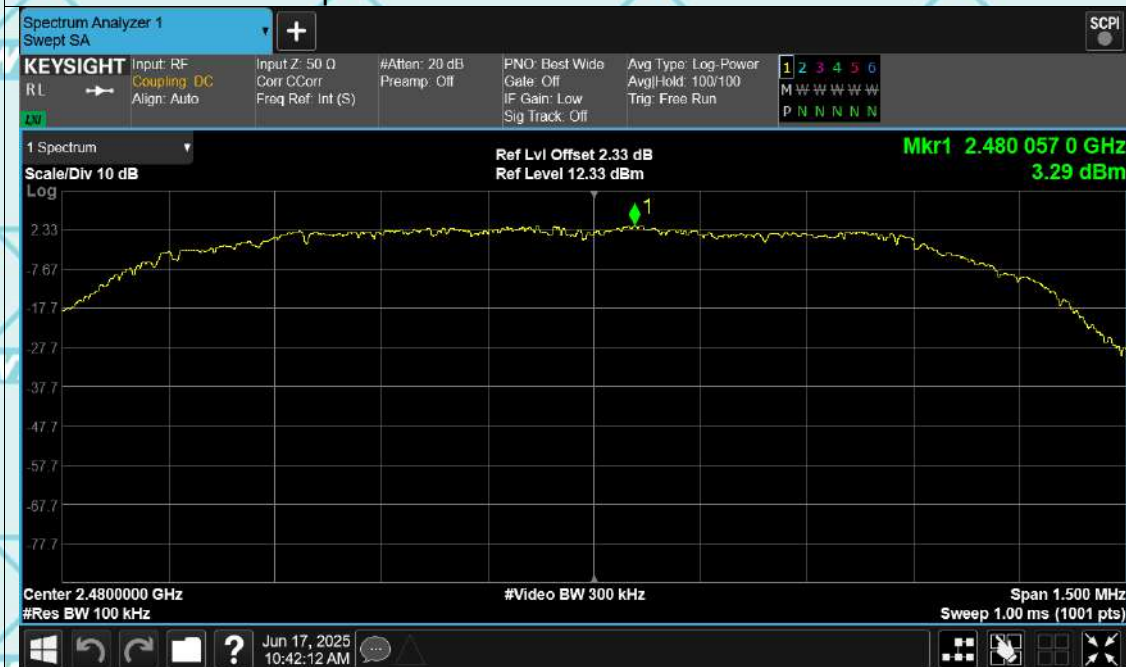


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Report No.: WSCT-ANAB-R&E250600041A -BT

Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



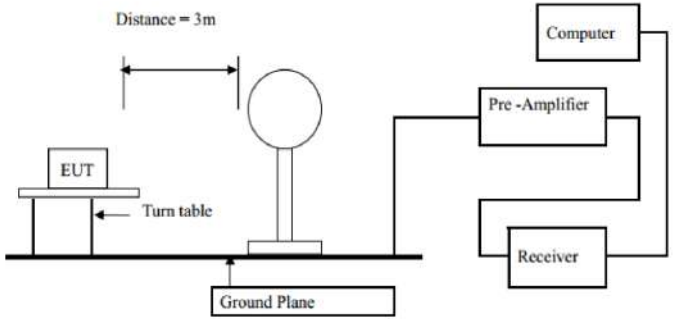
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

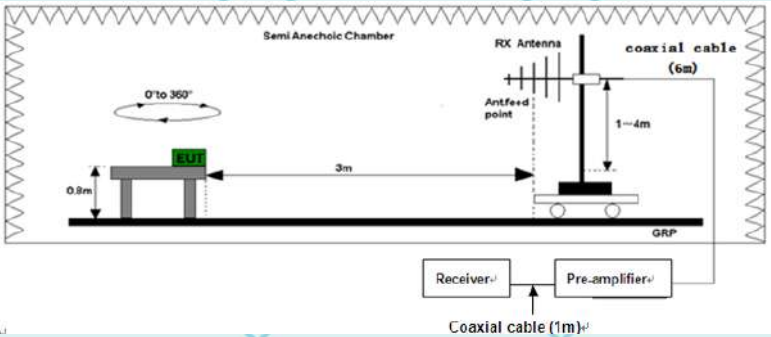
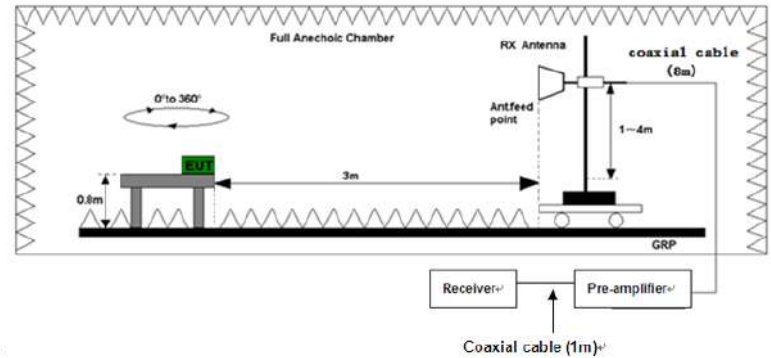


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6.11. Radiated Spurious Emission Measurement

6.11.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209			
Test Method:	ANSI C63.10:2014			
Frequency Range:	9 kHz to 25 GHz			
Measurement Distance:	3 m			
Antenna Polarization:	Horizontal & Vertical			
Receiver Setup:	Frequency	Detector	RBW	VBW
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz
	30MHz-1GHz	Quasi-peak	100KHz	300KHz
	Above 1GHz	Peak	1MHz	3MHz
Limit:	Remark			
	Quasi-peak Value			
	Quasi-peak Value			
	Quasi-peak Value			
	Peak Value			
Test setup:	Average Value			
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	
	0.009-0.490	2400/F(KHz)	300	
	0.490-1.705	24000/F(KHz)	30	
	1.705-30	30	30	
Test setup:	30-88	100	3	
	88-216	150	3	
	216-960	200	3	
	Above 960	500	3	
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
Test setup:	Above 1GHz	500	3	Average
		5000	3	Peak
For radiated emissions below 30MHz				
 Distance = 3m EUT Turn table Ground Plane Computer Pre -Amplifier Receiver				
30MHz to 1GHz				

	 Above 1GHz 
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the guidelines in Spurious Radiated Emissions of ANSI C63.10:2014 Measurement Guidelines. 2. For the radiated emission test below 1GHz: The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for

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	receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for $f < 1$ GHz, RBW=1MHz for $f > 1$GHz ; VBW$\geq$RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak (3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds On time = $N1 \cdot L1 + N2 \cdot L2 + \dots + Nn-1 \cdot Ln-1 + Nn \cdot Ln$ Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycle) Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
Test results:	PASS

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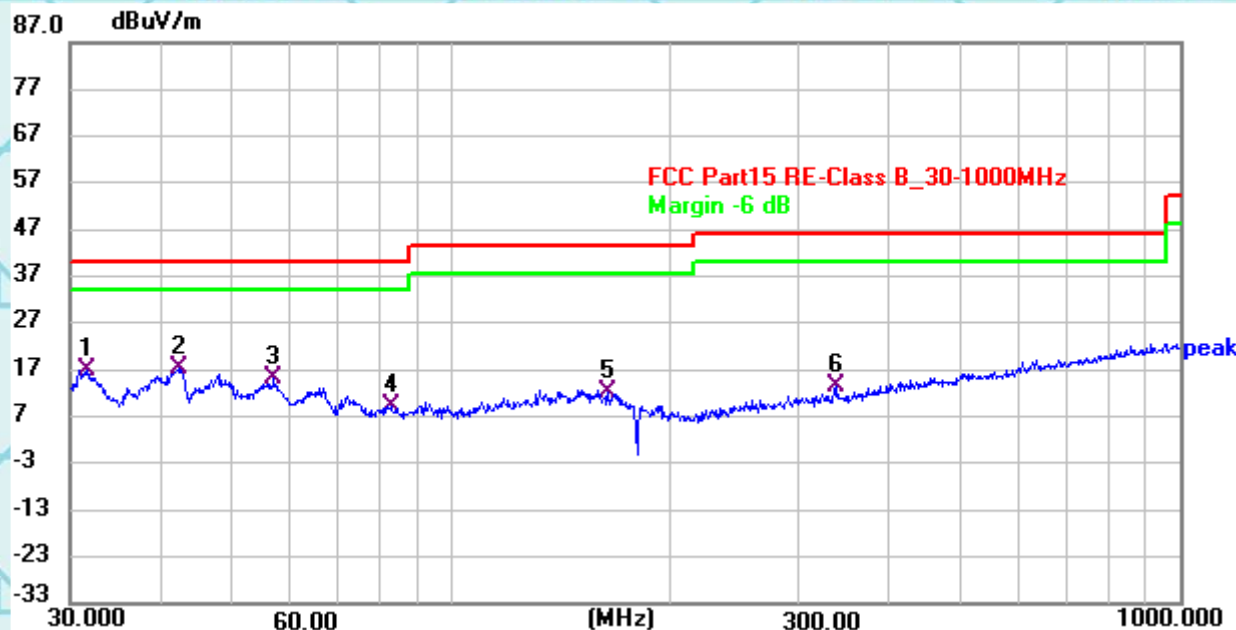
6.11.2. Test Data

Please refer to following diagram for individual

Below 1GHz

The worst mode is GFSK

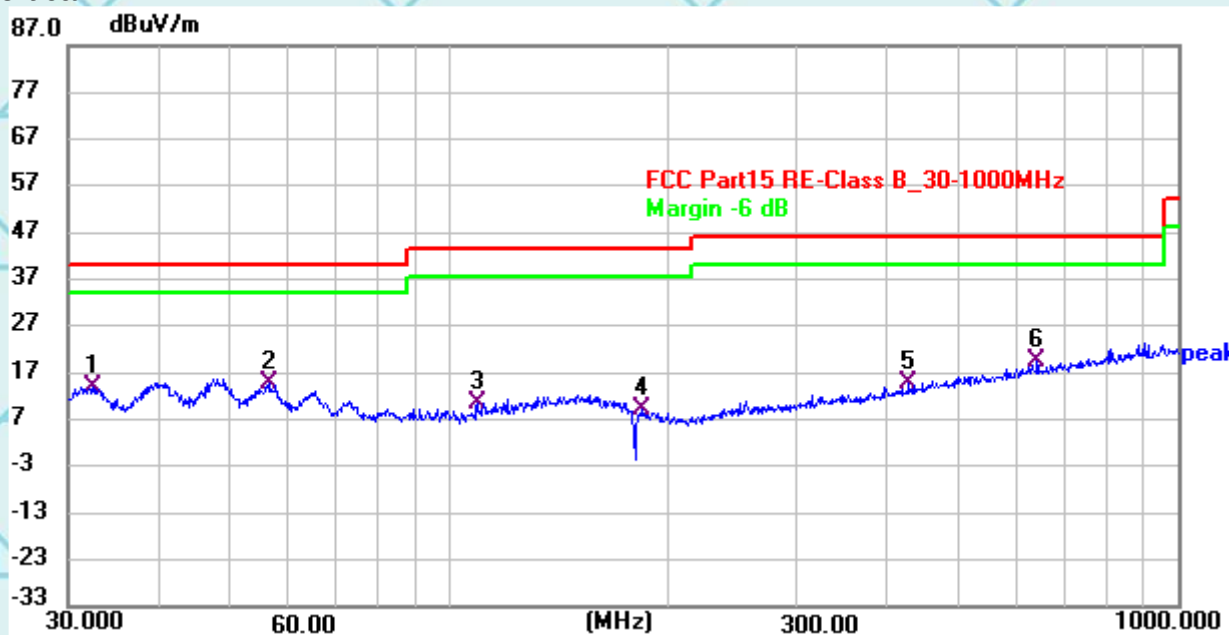
Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.8288	36.76	-19.63	17.13	40.00	-22.87	QP
2 *	42.5440	36.15	-18.87	17.28	40.00	-22.72	QP
3	57.2667	35.45	-20.03	15.42	40.00	-24.58	QP
4	82.8658	33.18	-23.99	9.19	40.00	-30.81	QP
5	163.8267	32.04	-19.96	12.08	43.50	-31.42	QP
6	338.8454	32.52	-19.07	13.45	46.00	-32.55	QP

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Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	32.5768	33.51	-19.58	13.93	40.00	-26.07	QP
2 *	56.6426	34.62	-19.93	14.69	40.00	-25.31	QP
3	109.4596	33.27	-22.62	10.65	43.50	-32.85	QP
4	184.9757	31.98	-22.68	9.30	43.50	-34.20	QP
5	428.9584	31.62	-16.95	14.67	46.00	-31.33	QP
6	642.5796	32.60	-12.98	19.62	46.00	-26.38	QP

Note1:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Measurement (dBuV) - Limits (dBuV)

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Above 1GHz

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious above 18G is noise only, do not show on the report.

The worst mode is GFSK

Low channel: 2402MHz

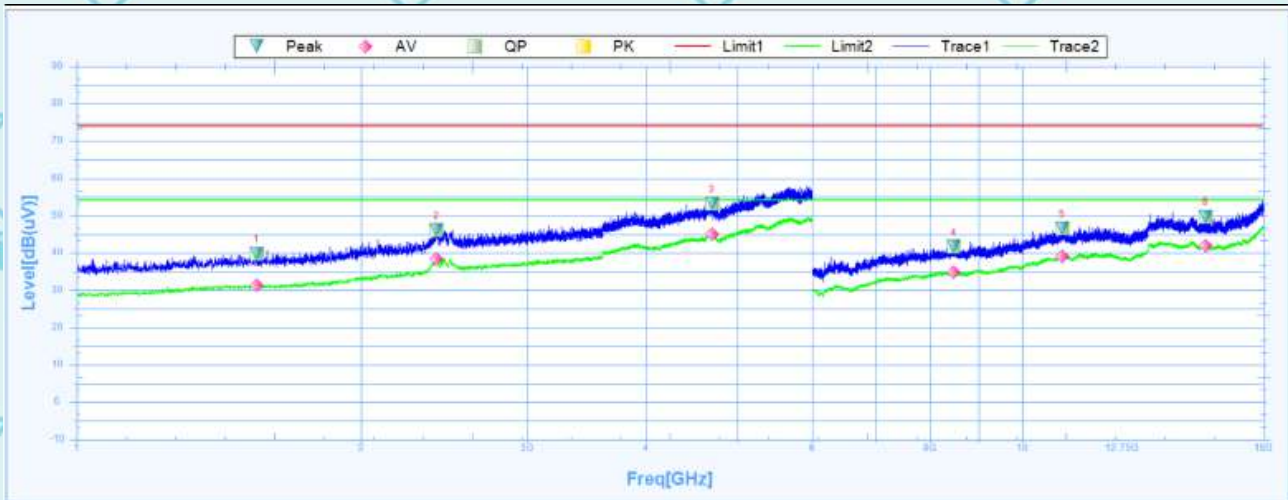
Horizontal:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1443.7500	40.81	25.06	15.75	74	-33.19	353.4	Horizontal	PK	Pass
1	1443.7500	30.4	25.06	5.34	54	-23.6	353.4	Horizontal	AV	Pass
2	2550.0000	55.11	27.66	27.45	74	-18.89	243.6	Horizontal	PK	Pass
2	2550.0000	36.01	27.66	8.35	54	-17.99	243.6	Horizontal	AV	Pass
3	4649.3750	53.56	30.9	22.66	74	-20.44	173	Horizontal	PK	Pass
3	4649.3750	44.21	30.9	13.31	54	-9.79	173	Horizontal	AV	Pass
4	7404.0000	42.03	7.17	34.86	74	-31.97	360	Horizontal	PK	Pass
4	7404.0000	32.88	7.17	25.71	54	-21.12	360	Horizontal	AV	Pass
5	10683.0000	46.21	14.58	31.63	74	-27.79	14.2	Horizontal	PK	Pass
5	10683.0000	38.29	14.58	23.71	54	-15.71	14.2	Horizontal	AV	Pass
6	16537.5000	49.66	18.89	30.77	74	-24.34	163.1	Horizontal	PK	Pass
6	16537.5000	41.76	18.89	22.87	54	-12.24	163.1	Horizontal	AV	Pass

Report No.: WSCT-ANAB-R&E250600041A -BT
Vertical:



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1550.0000	39.82	24.95	14.87	74	-34.18	222.1	Vertical	PK	Pass
1	1550.0000	31.41	24.95	6.46	54	-22.59	222.1	Vertical	AV	Pass
2	2403.1250	46.12	27.27	18.85	74	-27.88	161.1	Vertical	PK	Pass
2	2403.1250	38.42	27.27	11.15	54	-15.58	161.1	Vertical	AV	Pass
3	4698.1250	53.15	31	22.15	74	-20.85	89.4	Vertical	PK	Pass
3	4698.1250	45.02	31	14.02	54	-8.98	89.4	Vertical	AV	Pass
4	8470.5000	41.61	9.18	32.43	74	-32.39	304.2	Vertical	PK	Pass
4	8470.5000	34.76	9.18	25.58	54	-19.24	304.2	Vertical	AV	Pass
5	11020.5000	46.65	15.68	30.97	74	-27.35	360	Vertical	PK	Pass
5	11020.5000	39.02	15.68	23.34	54	-14.98	360	Vertical	AV	Pass
6	15631.5000	49.75	18.34	31.41	74	-24.25	279	Vertical	PK	Pass
6	15631.5000	41.82	18.34	23.48	54	-12.18	279	Vertical	AV	Pass

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Middle channel: 2440MHz

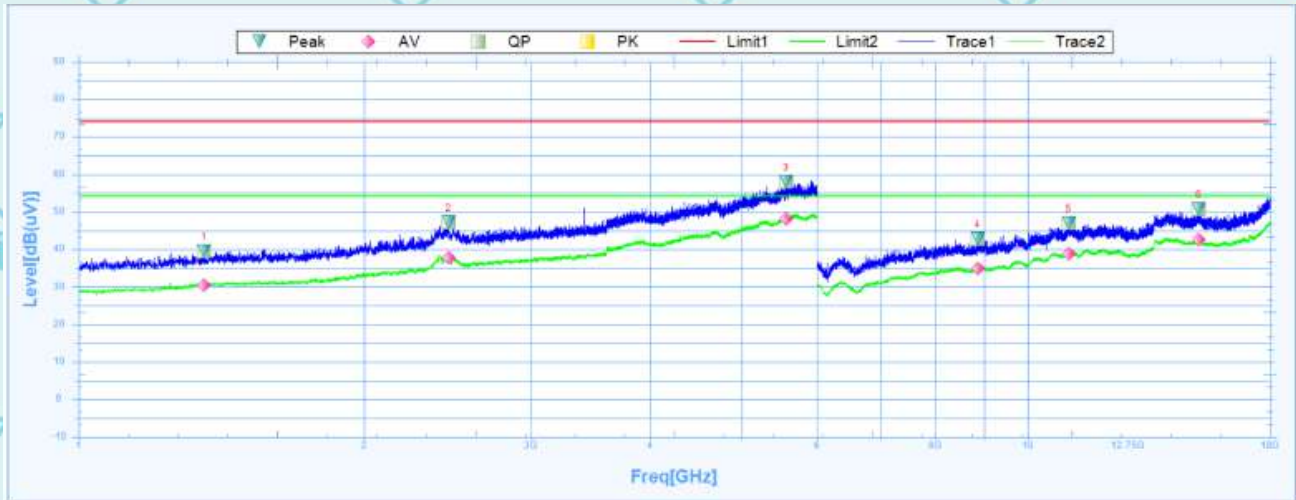
Horizontal:



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1957.5000	41.67	25.71	15.96	74	-32.33	222.4	Horizontal	PK	Pass
1	1957.5000	32.37	25.71	6.66	54	-21.63	222.4	Horizontal	AV	Pass
2	3073.7500	47.07	28.24	18.83	74	-26.93	308.5	Horizontal	PK	Pass
2	3073.7500	37.67	28.24	9.43	54	-16.33	308.5	Horizontal	AV	Pass
3	5260.0000	56.58	31.81	24.77	74	-17.42	159	Horizontal	PK	Pass
3	5260.0000	47.25	31.81	15.44	54	-6.75	159	Horizontal	AV	Pass
4	7303.5000	41.16	6.87	34.29	74	-32.84	360.1	Horizontal	PK	Pass
4	7303.5000	33.32	6.87	26.45	54	-20.68	360.1	Horizontal	AV	Pass
5	10473.0000	44.8	13.83	30.97	74	-29.2	191.8	Horizontal	PK	Pass
5	10473.0000	37.78	13.83	23.95	54	-16.22	191.8	Horizontal	AV	Pass
6	15124.5000	49.75	19.72	30.03	74	-24.25	263.5	Horizontal	PK	Pass
6	15124.5000	42.8	19.72	23.08	54	-11.2	263.5	Horizontal	AV	Pass

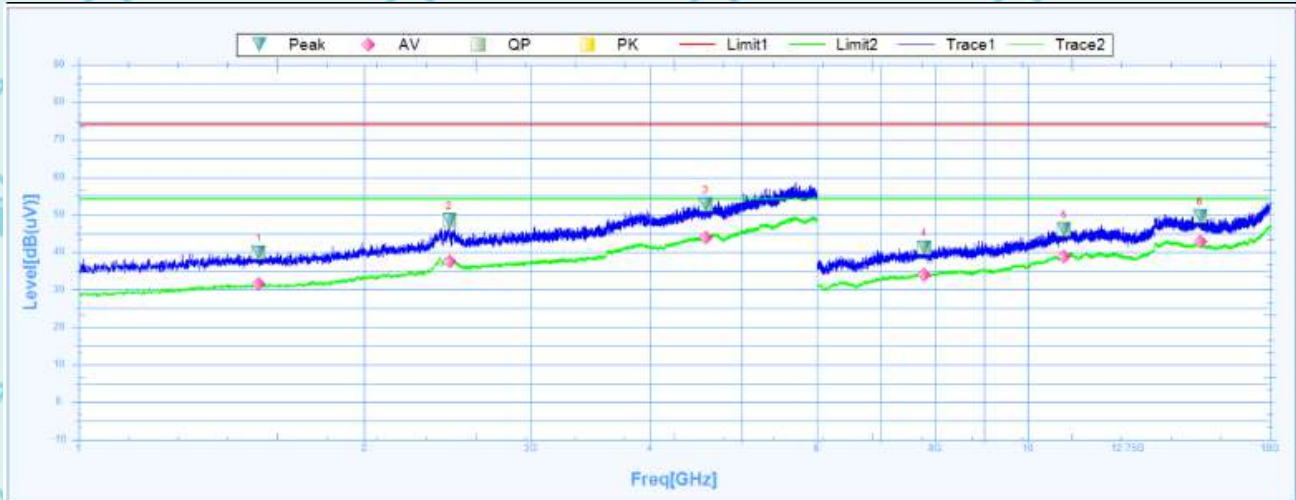
Report No.: WSCT-ANAB-R&E250600041A -BT
Vertical:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1356.2500	39.49	24.95	14.54	74	-34.51	90.6	Vertical	PK	Pass
1	1356.2500	30.43	24.95	5.48	54	-23.57	90.6	Vertical	AV	Pass
2	2455.0000	47.13	27.45	19.68	74	-26.87	359.5	Vertical	PK	Pass
2	2455.0000	37.82	27.45	10.37	54	-16.18	359.5	Vertical	AV	Pass
3	5565.6250	58	32.1	25.9	74	-16	0	Vertical	PK	Pass
3	5565.6250	48.22	32.1	16.12	54	-5.78	0	Vertical	AV	Pass
4	8854.5000	42.71	9.63	33.08	74	-31.29	289.8	Vertical	PK	Pass
4	8854.5000	34.89	9.63	25.26	54	-19.11	289.8	Vertical	AV	Pass
5	11046.0000	47.03	15.77	31.26	74	-26.97	154.6	Vertical	PK	Pass
5	11046.0000	38.94	15.77	23.17	54	-15.06	154.6	Vertical	AV	Pass
6	15147.0000	50.73	19.55	31.18	74	-23.27	49.4	Vertical	PK	Pass
6	15147.0000	42.56	19.55	23.01	54	-11.44	49.4	Vertical	AV	Pass

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High channel: 2480MHz
Horizontal:



Susputed Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1548.7500	39.96	24.95	15.01	74	-34.04	357.6	Horizontal	PK	Pass
1	1548.7500	31.44	24.95	6.49	54	-22.56	357.6	Horizontal	AV	Pass
2	2458.1250	48.48	27.46	21.02	74	-25.52	248.4	Horizontal	PK	Pass
2	2458.1250	37.46	27.46	10	54	-16.54	248.4	Horizontal	AV	Pass
3	4579.3750	52.7	30.76	21.94	74	-21.3	359.4	Horizontal	PK	Pass
3	4579.3750	44.02	30.76	13.26	54	-9.98	359.4	Horizontal	AV	Pass
4	7773.0000	41.34	7.97	33.37	74	-32.66	126	Horizontal	PK	Pass
4	7773.0000	33.97	7.97	26	54	-20.03	126	Horizontal	AV	Pass
5	10926.0000	46.09	15.21	30.88	74	-27.91	201.4	Horizontal	PK	Pass
5	10926.0000	38.91	15.21	23.7	54	-15.09	201.4	Horizontal	AV	Pass
6	15186.0000	49.62	19.25	30.37	74	-24.38	360.1	Horizontal	PK	Pass
6	15186.0000	42.7	19.25	23.45	54	-11.3	360.1	Horizontal	AV	Pass

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Vertical:



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1449.3750	39.83	25.05	14.78	74	-34.17	191	Vertical	PK	Pass
1	1449.3750	30.95	25.05	5.9	54	-23.05	191	Vertical	AV	Pass
2	2436.8750	46.82	27.39	19.43	74	-27.18	-0.1	Vertical	PK	Pass
2	2436.8750	38.06	27.39	10.67	54	-15.94	-0.1	Vertical	AV	Pass
3	5085.0000	55.26	31.67	23.59	74	-18.74	65.4	Vertical	PK	Pass
3	5085.0000	45.79	31.67	14.12	54	-8.21	65.4	Vertical	AV	Pass
4	7432.5000	39.92	7.27	32.65	74	-34.08	0.4	Vertical	PK	Pass
4	7432.5000	32.59	7.27	25.32	54	-21.41	0.4	Vertical	AV	Pass
5	10303.5000	44.92	13.29	31.63	74	-29.08	221.7	Vertical	PK	Pass
5	10303.5000	37	13.29	23.71	54	-17	221.7	Vertical	AV	Pass
6	14181.0000	49.76	18.94	30.82	74	-24.24	78.2	Vertical	PK	Pass
6	14181.0000	42.16	18.94	23.22	54	-11.84	78.2	Vertical	AV	Pass

Note:

1. The emission levels of other frequencies are very lower than the limit and not show in test report.
2. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
3. Data of measurement shown "---" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
4. Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (GFSK) was submitted only.

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6.11.3. Restricted Bands Requirements

Bluetooth (GFSK, Pi/4-DQPSK, 8DPSK) mode have been tested, and the worst result GFSK model was report as below

Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel							
2387	60.06	-8.76	51.30	74	22.70	H	PK
2387	56.29	-8.76	47.53	54	6.47	H	AV
2387	62.78	-8.73	54.05	74	19.95	V	PK
2387	55.35	-8.73	46.62	54	7.38	V	AV
2390	62.82	-8.76	54.06	74	19.94	H	PK
2390	56.12	-8.76	47.36	54	6.64	H	AV
2390	61.33	-8.73	52.60	74	21.40	V	PK
2390	54.24	-8.73	45.51	54	8.49	V	AV
High Channel							
2483.5	62.69	-8.17	54.52	74	19.48	H	PK
2483.5	53.09	-8.17	44.92	54	9.08	H	AV
2483.5	64.49	-8.17	56.32	74	17.68	V	PK
2483.5	54.78	-8.17	46.61	54	7.39	V	AV

Note: Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Attenuation factor + Cable loss

Level (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

Margin (dB) = Level (dBμV) – Limits (dBμV)

*****END OF REPORT*****